

COOLEDGE LUMINOUS CEILINGS FABRICATED LUMINAIRES - SUSPENDED: SPECIFICATIONS

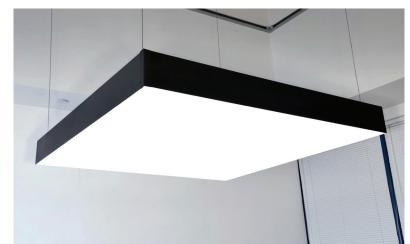
PROJECT	REFERENCE TYPE	
SPECIFIED BY	QUANTITY	
DATE	NOTE	Luminous Ceilings

DESCRIPTION

Cooledge **FABRICated Luminaires** are a simple, out-of-the-box way to incorporate the unique look and feel of a stretch fabric ceiling into your space. Bring the feeling of the outdoors inside, filling an open concept space with clouds of light that also absorbs sound to deliver an exceptional experience for your eyes and ears.

Suspended luminaires deliver immersive illumination and noise reduction for:

- Showrooms
- Lobbies
- · Open plan Offices
- Shop-in-shop Retail



Features Cooledge's unique "Infinity Edge" design for uniform illumination from edge to edge.

SIZES

Nominal Size (Metric - mm)
1200 x 1200
1200 x 1800
1200 x 2400
1200 x 3000
1500 x 1500
1800 x 1800
1800 x 2400
1800 x 2700

GENERAL

Location	Indoor, (IP20)
Operating Temperature	0-40°C
Storage Temperature	-40-+85°C
Relative Humidity	90% max (non-condensing)
Operating Voltage	58 VDC
Diffuser Material	Knitted Polyester Fabric (coated)
Frame Material	Aluminum
Fire Rating	ASTM E 84 Class A /EN:3501-1 Class B
Noise Reduction Coefficient (NRC)	Standard: 0.2 (ISO Class E) Optional: 0.75 (ISO Class C)





RoHS

Cooledge Lighting Inc. 110-13551 Commerce Parkway Richmond, BC V6V 2L1 Canada O +1 604 273 2665 F +1 604 273 2660

T +18444554448 W cooledgelighting.com Cooledge Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

PHOTOMETRICS

Nominal Size (Metric - mm)	Flux (lm)			
	High (HF)	Medium (MF)		
1200 x 1200	5530	2760		
1200 x 1800	8740	4370		
1200 x 2400	11830	5910		
1200 x 3000	16660	8330		
1500 x 1500	9280	4640		
1800 x 1800	15700	7850		
1800 x 2400	20910	10450		
1800 x 2700	23670	11830		

CRI (Ra)	>90
Color Uniformity (Typical)	2 SDCM
Lumen Maintenance (L80)	75,000 hr

TM-30-15 DATA

ССТ	TNW*	3000	3500	4000
Rf	90	89	88	85
Rg	99	97	97	95

For more details about **FABRICated Luminaires** color rendering properties, please see "Light Quality Metrics" at www.cooledgelighting.com
*TNW = Tunable White

POWER

Nominal Size		High Flux	Medium Flux	
(mm)	ССТ	(HF)	(MF)	
		Power (W)	Power (W)	
	TNW	87	44	
1200 x 1200	3000K	81	40	
1200 X 1200	3500K	79	40	
	4000K	77	37	
	TNW	135	68	
1200 x 1800	3000K	126	61	
1200 X 1800	3500K	122	61	
	4000K	119	58	
	TNW	183	92	
1200 × 2400	3000K	170	83	
1200 x 2400	3500K	165	83	
	4000K	161	78	
	TNW	321	111	
1200 x 3000	3000K	225	109	
1200 X 3000	3500K	218	106	
	4000K	212	103	

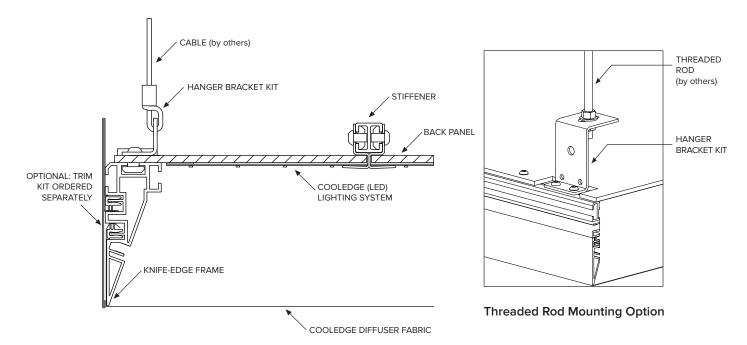
Nominal Size (mm)	сст	High Flux (HF)	Medium Flux (MF)	
		Power (W)	Power (W)	
	TNW	139	67	
1500 x 1500	3000K	136	66	
1500 X 1500	3500K	132	64	
	4000K	128	63	
	TNW	241	121	
1800 x 1800	3000K	223	109	
1600 X 1600	3500K	216	109	
	4000K	211	102	
	TNW	321	161	
1800 × 2400	3000K	297	145	
1600 X 2400	3500K	288	145	
	4000K	281	136	
	TNW	361	181	
1800 × 2700	3000K	334	163	
1600 X 2700	3500K	324	163	
	4000K	317	153	

DIMENSIONS

Nominal Size (Metric - mm)	Order Code	External Dimensions (mm)		Weight (kg)	# Mounting Points
		W	L		
1200 x 1200	44	1180	1180	19.5	4
1200 x 1800	46	1180	1780	23.6	6
1200 x 2400	48	1180	2380	25.9	6
1200 x 3000	410	1180	2980	34.5	8
1500 x 1500	55	1480	1480	18.0	6
1800 x 1800	66	1900	1900	30.9	6
1800 x 2400	68	1900	2500	36.8	8
1800 x 2700	69	1900	2800	40.0	8

Height = 133mm

MOUNTING DETAILS



X-section showing Cable Mount

NOISE REDUCTION

Suspended Cooledge FABRICated Luminaires are unique in combining high quality illumination with sound absorption characteristics. In open concept areas FABRICated Luminaires can reduce or eliminate the need for additional sound absorbing materials – especially useful where stone or tile floors are used.

NOISE REDUCTION COEFFICIENT (NRC)

NRC Value	Sound Absorption Class	Order Code Reference	
0.2	Class E	"E"	
0.75	Class C	"C"	

NOTE: Contact Cooledge for NRC = 1.0 (class A) options

POWER AND CONTROL MOUNTING

Cooledge Control Module configuration is determined **Power & Control Mounting Plate**

Mounting Plate Dimensions: 420mm x 239mm

FABRICated Luminaires offer two choices for locating the power and control components:

- Integrated: the mounting plate containing the power supply and control module may be secured to the top of the luminaire. AC electrical connections are made directly to the power supplies at the luminaire
- Remote Mounted: the mounting plate can be located remotely in a location that may be more suitable for AC electrical connection or for maintenance access (see www.cooledgelighting.com or contact Cooledge for remote distance wiring requirements)

HOW TO ORDER

Power Supply with

Actual power & control

by the luminaire model.

(shipped in a separate package)

Static CCT

Luminaire - Suspended 48 = 4x8 (1200x2400) 40 = 4000K DMX = D CAS = Ca	ALI/0-10V (0.05%)
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Tunable White

1

PRODUCT FLS = FABRICated Luminaire - Suspended	44 = 4x4 (1200x1200) 46 = 4x6 (1200x1800) 48 = 4x8 (1200x2400) 410 = 4x10 (1200x3000) 55 = 5x5 (1500x1500)	3 FLUX HF = High Flux MF = Med Flux	4 CCT TNW = Tunable White (2700K -5700K)	5 MOUNTING AC = Aircraft Cable TR = Threaded Rod	6 <u>DIMMING</u> DAL = DALI/0-10V (0.05%) DMX = DMX (0.05%) CAS = Casambi (Wireless - 0.05%)	7 <u>NRC</u>) E = 0.2 C = 0.75	8 CERTIFICATION U = cUL C = CE
	66 = 6x6 (1800×1800)						

68 = **6x8** (1800×2400) **69** = **6x9** (1800×2700)

TRIM KITS (OPTIONAL)

Cooledge FABRICated Luminaires are available with 3 finishing options:

- 1. Metal Trim/Fascia: for applications where the texture of the finish will be highly visible
- 2. Plastic Trim/Fascia: budget friendly alternative for typical mounting height applications
- 3. No Trim/Fascia: fabric diffuser is visible on the sides for a true Infinity Edge

HOW TO ORDER

Nominal Size (mm)	FABRICated Luminaire Models	Material	Color	Order Code
1200 x 1200	FLS-44	Metal	White	FL-TRM-44-MTL-WHT-K
			Black	FL-TRM-44-MTL-BLK-K
		Plastic	White	FL-TRM-44-PLS-WHT-K
			Black	FL-TRM-44-PLS-BLK-K
1200 x 1800	FLS-46	Metal	White	FL-TRM-46-MTL-WHT-K
			Black	FL-TRM-46-MTL-BLK-K
1200 X 1800		Plastic	White	FL-TRM-46-PLS-WHT-K
			Black	FL-TRM-46-PLS-BLK-K
	FI C 40	Metal	White	FL-TRM-48-MTL-WHT-K
4200 2400			Black	FL-TRM-48-MTL-BLK-K
1200 x 2400	FLS-48	Plastic	White	FL-TRM-48-PLS-WHT-K
		Flastic	Black	FL-TRM-48-PLS-BLK-K
	FLS-410	Metal	White	FL-TRM-410-MTL-WHT-K
1200 × 2000			Black	FL-TRM-410-MTL-BLK-K
1200 x 3000		Plastic	White	FL-TRM-410-PLS-WHT-K
			Black	FL-TRM-410-PLS-BLK-K
	FLS-55	Metal	White	FL-TRM-55-MTL-WHT-K
1500 x 1500			Black	FL-TRM-55-MTL-BLK-K
1300 X 1300		Plastic	White	FL-TRM-55-PLS-WHT-K
			Black	FL-TRM-55-PLS-BLK-K
	FLS-66	Metal	White	FL-TRM-66-MTL-WHT-K
1800 x 1800			Black	FL-TRM-66-MTL-BLK-K
1000 X 1000		Plastic	White	FL-TRM-66-PLS-WHT-K
			Black	FL-TRM-66-PLS-BLK-K
		Metal	White	FL-TRM-68-MTL-WHT-K
1800 x 2400	FLS-68		Black	FL-TRM-68-MTL-BLK-K
		Plastic	White	FL-TRM-68-PLS-WHT-K
			Black	FL-TRM-68-PLS-BLK-K
	FLS-69	Metal	White	FL-TRM-69-MTL-WHT-K
1800 x 2700			Black	FL-TRM-69-MTL-BLK-K
1000 / 2700		Plastic	White	FL-TRM-69-PLS-WHT-K
			Black	FL-TRM-69-PLS-BLK-K

WELL STANDARD (V2)

Cooledge FABRICated Luminaires enhance the user experience of spaces by delivering immersive illumination that impacts not only the visual, but also the emotional and physiological, response of people. New standards that define requirements for promoting design that enhances well-being are emerging. One of those standards, WELL v2, includes 8 "features" for lighting design that define requirements for the quality and composition.

The following data is provided to assist designers in determining compliance with the WELL v2 standard when incorporating Cooledge FABRICated Luminaires in their design.

Feature L03: Circadian Lighting Design

This feature requires a calculation of Equivalent Melanopic Lux (EML):

EML = Photopic Lux x Melanopic Ratio

Melanopic Ratio for FABRICated Luminaires

	TNW*	3000K	3500K	4000K
Melanopic Ratio**	0.704	0.517	0.620	0.779

^{*}Tunable White: 2700K @ 50% + 5700K @ 50%

Feature L04: Glare Control

This feature requires maximum values for different types of glare measurements. Compliance requirement (d): Luminance < 10,000 cd/m2 between 45°-90° from nadir

Maximum Luminance for FABRICated Luminaires

	High Flux (HF)	3000K
Maximum Luminance* (cd/m2)	1465	740

^{*}Maximum occurs at 45°

Feature L07: Electric Light Quality – Part 1 Ensure Color Rendering Quality

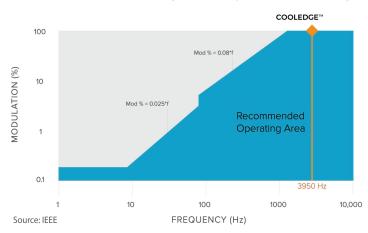
This feature requires minimum values for color rendering.

Compliance requirement (a): CRI > 90

CRI (Ra) for FABRICated Luminaires

	TNW*	3000K	3500K	4000K
CRI (Ra)	96	93	93	93

Feature L07: Electric Light Quality – Part 2 Manage Flicker



For LED-based luminaires, this feature requires specific values for the combination of frequency and modulation.

Compliance requirement: Meet IEEE 1789-2015 Standard Practice Recommendation

^{**}Calculated using the IWBI Melanopic Ratio calculator